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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/830,068	(07/23/2001	Ulrich Eisele	10191/1784	10191/1784 9769	
26646	7590	12/19/2002				
KENYON &		ON	EXAMINER			
ONE BROAT NEW YORK		004		DERRINGTON, JAMES H		
				ART UNIT	PAPER NUMBER	
				1731	4	
				DATE MAILED: 12/19/2002	Ð	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	10				
Office Action Summary	09/830,068	EISELE, ULRICH					
. Onice Action Summary	Examiner	Art Unit					
The SAAU INC. DATE and	James Derrington	1731					
The MAILING DATE of this communication app Period for Reply	pears on the cov r sheet with	n the correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) ☐ This action is FINAL. 2b) ☑ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 19-37 is/are pending in the application	n.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>19-37</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)⊡ Some * c)⊡ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3.⊠ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.	4) Interview Sun 5) Notice of Info 6) Other:	nmary (PTO-413) Paper No(s). rmal Patent Application (PTO-15	52)				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19-24 and 33-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Herron et al (4,971,731).

This reference discloses all that is recited in claim 19. Specially Herron et al disclose the method of disposing a plurality of green ceramic substrates, i.e. multilayer ceramic substrate laminate containing a hydrocarbon binder and having printed circuits between porous setter plates during debinding and sintering operations. A catalytically active substance is including in at least one of the setter plates (Figs. 1 and 2, Cols. 5 and 6; and note specifically Col. 6, lines 25-35, Col. 6, line 52, Col. 7, lines 8-10, Col. 7, lines 34-37 and Col. 4, lines 30-32).

Herron et al disclose that the catalytically active substance can be located at a number of positions, e.g. within the setter (Fig. 5) and on the bottom of the substrates, and other positions so long as the substance is proximate to the substrates. Herron et al also disclose the use of ceramic separating layers (22) and (24). Thus the features of dependent claims 20-22 if not explicitly shown by Herron et al would have been clearly

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obvious to one of ordinary skill in the art in view of these teachings. The Figs. of Herron et al depict the device as recited in claims 33-37. The elements 234 (Fig. 5) qualify as "gas outlets" or would clearly suggest gas outlets in view of Col. 7, lines 34-40.

Claims 25-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herron et al (4,971,731) as applied to claims 19-24 and 33-37 above, and further in view of Brownlow et al (4,474,731).

The Brownlow et al reference discloses a related process where catalytically active substances such as palladium are use to aid in binder removal (See Abstract). The catalysts can be added in the form of salts such as nitrates or acetates (Col. 3, line 23 ff). It would have been obvious to use palladium salts in the claimed manner and for the intended purpose in view of the combined teachings of the cited references. This is particularly true since Herron et al disclose that other catalytically active substances may be employed (Col. 7, line 53 ff). Herron et al disclose a low temperature treatment during formation of the setters (Col. 7, line 18) and hydrogen atmospheres are shown in the working examples. The recited features if not explicitly shown would have been clearly obvious to one of ordinary skill in the art in view of the combined teachings of the references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Derrington whose telephone number is 703 308-3832. The examiner can normally be reached on 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 703 308-1164. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703 305-7718 for regular communications and 703 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0661.

JAMES DERRINGTON
PRIMARY EXAMINER

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jd December 15, 2002